PTO/SB/08 (08-03)

Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)

of | 7

Complete if Known						
Application Number	09/966,571					
Filing Date	September 26, 2001					
First Named Inventor	Wagner, Peter					
Art Unit	1641					
Examiner Name	Nelson C. Yang					
Attorney Docket Number	020144-001960US					

U.S. PATENT DOCUMENTS+								
Document Number  Publication Date Name of Patentee or Pages, Columns, Lines, Where								
Examiner Initials*	Cite No. <sup>1</sup>	Number Kind Code <sup>2</sup> (# known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Relevant Passages or Relevant Figures Appear			
M	AA	US-4,071,409	01-31-1978	Messing et al.				
,	AB	US-4,562,157	12-31-1985	Lowe et al.				
1	AC	US-4,690,715	09-01-1987	Allara et al.				
	AD	US-4,722,896	02-02-1988	Kadish et al.				
1 1	AE	US-4,908,112	03-13-1990	Pace				
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	AH	US-5,079,600	01-07-1992	Schnur et al.				
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	BK	US-5,622,828	04-22-1997	Varma				
	BL	US-5,624,711	04-29-1997	Sundberg et al.				
M	BM	US-5,629,213	05-13-1997	Komguth et al.				

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	Examiner Signature	Nusan	$\nearrow$	Date Considered	4/30/04

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Applicant's unique citation designation number (optional). Applicant is to place a check mark here if English language Translation is attached.

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INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

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Application Number	09/966,571				
Filing Date	September 26, 2001				
First Named Inventor	Wagner, Peter				
Art Unit	1641				
Examiner Name	Nelson C. Yang				
Attorney Docket Number	020144-001960US				

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Application Number 09/966,571

Filing Date September 26, 2001

First Named Inventor Wagner, Peter

Art Unit 1641

Examiner Name Nelson C. Yang

020144-001960US

(use as many sheets as necessary)

Sheet 3 of 7

Country Code <sup>3</sup> WO	Number <sup>4</sup> 93/21528 98/50773 95/35505 96/02830 96/10178 96/26432 96/29629 96/38726 96/39937 97/07429 97/36681 97/41424 97/41425 98/23948	Sument  Kind Code <sup>s</sup> (#known)	Publication Date MM-DD-YYYY 10-28-1993 11-12-1998 12-28-1995 02-01-1996 04-04-1996 08-29-1996 12-05-1996 12-05-1996 12-19-1996 02-27-1997 10-09-1997 11-06-1997 06-04-1998	Name of Patentee or Applicant of Cited Document Lang, et al. Univ. Minnesota Brown, et al. Sartore, et al. Loefaas Reichert, et al. Jackman, et al. Heyse, et al. Whitesides, et al. Winn-Deen, et al. Hodges, et al. Hodges, et al. Boxer, et al.	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
WO W	98/50773 95/35505 96/02830 96/10178 96/26432 96/29629 96/38728 96/39937 97/07429 97/36681 97/41424 97/41425 98/23948		11-12-1998 12-28-1995 02-01-1996 04-04-1996 08-29-1996 09-26-1996 12-05-1996 12-19-1996 02-27-1997 10-09-1997 11-06-1997 06-04-1998	Univ. Minnesota Brown, et al. Sartore, et al. Loefaas Reichert, et al. Jackman, et al. Heyse, et al. Ferrari, et al. Whitesides, et al. Winn-Deen, et al. Hodges, et al. Hodges, et al.		
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Attorney Docket Number

Examiner Signature	Muha	$\psi_{\infty}$	Date Considered	4/30/64

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

	(use as ma	any sheets as	necessary)
Sheet	4	of	7

Complete if Known					
Application Number	09/966,571				
Filing Date	September 26, 2001				
First Named Inventor	Wagner, Peter				
Art Unit	1641				
Examiner Name	Nelson C. Yang				
Attorney Docket Number	020144-001960US				

		NON PATENT LITERATURE DOCUMENTS	
Examiner	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	Т
M	EA	Becker et al. "Fabrication of microstructures with high aspect ratios and great structural heights by synchrotron radiation lithography, galvanoforming, and plastic moulding (LIGA process)" Microelectronic Engineering 4:35-56 (1986).	
	EB	Becker et al. "Production of separation -nozzle systems for uranium enrichment by a combination of x-ray lithography and galvanoplastics" Naturwissenschaften 69:520-523 (1982).	
	EC	Cha et al. Expression of fused protein, human interleukin-2 and green fluorescent protein, in insect larvae. Annual Meeting of The American Institute of Chemical Engineers, Los Angeles, CA, Nov. 1997.*	
	ED	Cload et al., "Development of improved tRNAs for in vitro biosynthesis of proteins containing unnatural amino acids," Chemistry and Biology, 3:1033-1038 (1996).	
	EE	Colliod et al. "Oriented and covalent immobilization of target molecules to solid supports" Synthesis and application of a light-activatable and thiol-reactive cross-linking reagent Bioconjugate Chem. 4:528-536 (1993).	
	EF	Condra et al. "In vivo emergence of HIV-1 variants resistant to multiple protease inhibitors" Nature 374:569-571 (1995).	
	EĞ	Dammer et al., "Specific antigen/antibody interactions measured by force microscopy," Biophysical Journal, 70:2437-2441 (1996).	
	EH	Dawson et al., "Peptide-derived self-assembled monolayers: adsorption of N-stearoyl I-Cysteine methyl ester on gold," Journal of Molecular Recognition, 10:18-25 (1997).	
	EI	Duschl et al., "Surface engineering: optimization of antigen presentation in self-assembled monolayers," Biophysical Journal, 70:1985-1995 (1996).	
	EJ	Dzgoev et al "Microformat imaging ELISA for pesticide determination" Anal. Chem. 68(19):3364 (1996).	
	EK	Ekins "Ligand assays" from electrophoresis to miniaturized microarrays Clin. Chem. 44(9):2015-2030 (1998).	
	EL	Elkins et al. "Multianalyte microspote immunoassay-microanalytical "compact disk" of the future" Clin. Chem. 37(11):1955-1967 (1991).	
	EM	Ellman et al., "Biosynthetic method for introducing unnatural amino acids site-specifically into proteins," Methods in Enzymology, 202:301-337 (1991).	
	EN	Geohegan et al. "Fluorescence-based continuous assay for the aspartyl protease of human immunodeficiency virus- 1" FEBS 262:119-122 (1990).	
1	EO	Hegner et al., "Immobilizing DNA on gold via thiol modification for atomic force microscopy imaging in buffer solutions," FEBS, 338(3):452-456 (1993).	
M	EP	Hegner et al., "Modified DNA immobilized on bioreactive self-assembled monolayer on gold for dynamic force microscopy imaging in aqueous buffer solution," J. Vac. Sci. Technol. B, 14(2):1418-1421 (1998).	

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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

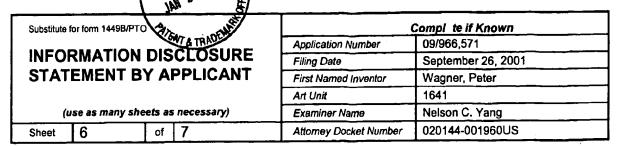
Applicant's unique citation designation number (optional). Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449B/PTO C mplete if Known Application Number 09/966,571 INFORMATION DISCLOSURE Filing Date September 26, 2001 STATEMENT BY APPLICANT First Named Inventor Wagner, Peter Art Unit 1641 (use as many sheets as necessary) Examiner Name Nelson C. Yang 020144-001960US Attorney Docket Number Sheet 5 of

	1	NON PATENT LITERATURE DOCUMENTS  Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item	
Examiner Initials *	Cite No.1	(book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	Τ;
M	EQ	Hegner et al., "Ultralarge atomically flat template-stripped Au surfaces for scanning probe microscopy," Surface Science, 291:39-46 (1993).	
1	ER	Ho et al. "Characterization of human immunodeficiency virus type 1 variants that encode viral proteases with decreased sensitifity to an inhibitor of the viral protease" Journal of Virology 68:2016-2020 (1994).	
	ES	Hochuli et al., "Genetic approach to facilitate purification of recombinant proteins with a novel metal chelate adsorbent," Biotechnology, 6:1321-1325 (1988).	
	ET	Jacobson et al. "Fused quartz substrates for microship electrophoresis" Anal. Chem. 67:2059-2063.	
	EU	Jones et al. "Microminizaturized immunoassays using atomic force microscopy and compositionally patterned antigen arrays" Anal. Chem. 70(7):1223-1241 (1998).	
	EV	Kaplan et al. "Selection of multiple human immunodeficiency virus type 1 variants that encode viral proteases with decresed sensitivity to an inhibitor of the viral inhibitor Proc. Natl. Acad. Sci. USA 91:5597-5601 (1994).	
	EW	Kemeny. Enzyme-linked immunoassays. In Immuno-Chemistry 1 (eds Johnstone and Turner). pp. 147-175, Nov. 1997.*	
	EX	Korant et al. "The HIV protease and therapies for aids" Adv. in Experimental Med. and Biol 421:279-284 (1997).	
	EY	Kricka "Miniaturization of analytical systems" Clin. Chem. 44(9):2008-2014 (1998).	
	EZ	Lemmo et al., "Characterization of inkjet chemical microdispenser for combinatorial library synthesis," Anal. Chem., 69:543-551 (1997).	
	FA	Linford et al., "Alkyl monolayers on silicon prepared from 1-alkenes and hydrogen-terminated silicon," J. Am. Chem. Soc., 117:3145-3155 ((1995).	
	FB	Loeb et al. "Complete mutegenesis of the HIV-1 protease" Nature 340:397-400 (1989).	
	FC	Louis et al. "Autoprocessing of the HIV-1 protease using purified wild-type and mutated fusion proteins expressed at high levels in Eschericia coli" Eur. J. Biochem. 199:361-369 (1991).	
<del>                                     </del>	FD	Marks et al. "By-passing immunication- Human antibodies from V-gene libraries displayed on phage" J. Mol. Biol. 222:581-597 (1991).	
	FE	Martynova et al. "Fabricating of plastic microfluid channels by imprinting methods" Anal. Chem. 69:4783-47-89 (1997).	
M	FF	Mauracher et al. Reduction of rubella ELISA background using heat denatured sample buffer. J. Imminol. Methods. 145:251-254, 1991.*	

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Examiner nitials *	Cite No.1	(book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	Т
M	FG	Moore et al. "Peptide substrates and indibitors of HIV-1 protease" Biochem. Biophys. Res. Com. 159:420-425 (1989).	
1	FH	Mrksich et al., "Controlling cell attachment on contoured surfaces with self-assembled monolayers of alkanethiolates on gold," Proc. Natl. Acad. Sci. USA, 93:10775-10778 (1996).	
	FI	Nock et al. (1997). Reversible, site specific immobilization of polyarginine-taggd fusion protein on mica surfaces. FEBS Letters. 414:233-238.	
	FJ	Noren et al., "A general method for site-specific incorporation of unnatural amino acids into proteins," Science, 244:182-188 ((1989).	
	FK	Pale-Grosdemange et al. (1991). Formation of self-assembled monolayers by chemisorption of derivatives of oligo(ethylene glycol) of structure HS(CH2)11(OCH2CH2)mOH on gold. J. Am. Chem. Soc. 113(1):12-20.*	
	FL	Prime et al., "Self-assembled organic monolayers: model systems for studying absorption of proteins at surfaces," Science, 252:1164-1167 (1991).	
	FM	Roberts et al. "Rationale design of peptide-based HIV proteinase inhibitors" Science 248:358-361 (1990).	
	FN	Rowe et al. "Array biosensor for simultaneous identification of bacterial, viral and protein analytes" Anal. Chem. 71(17):3846-3852 (1999).	
	FO	Schock et al. "Mutaional anatomy of an HIV-1 protease variant conferring cross-resistance to protease inhibitors in clinical trials" J. Biol. Chem. 271:31957-31963 (1996).	
	FP	Sigal et al. "A self-assembled monolayer for the binding and study of histidine-tagged proteins by surface plasmon resonance" Anal. Chem 68:490-497 (1996).	
	FQ	Sitzel et al. "Mass-sensing, multianalyte microarray immunoassay with imaging detection" Clin. Chem. 44(9):2036-2043 (1998).	
	FR	Singhvi et al., "Engineering cell shape and function," Science, 264:696-698 (1994).	
	FS	Skalka: Retroviral proteases: first glimpses at the anatomy of a processing machine Cell 56:911-913 (1989).	
	FT	Stennicke et al., "Biochemical characteristics of caspases-3, -6, -7, and -8," The Journal of Biological Chemistry, 272:25719-25723 (1997).	
	FU	Sundberg et al., "Spatially-addressable immobilization of macromolecules on solid supports," J. Am. Chem. Soc., 117:12050-12057 (1995).	
M	FV	Talanian et al., "Substrate specificities of caspase family proteases," The Journal of Biological Chemistry, 272:9677-9682 (1997).	

Examiner Signature Date Considered 4/30/04				 
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Substitute for form 1449B/PTO INFORMATION DISCLOSURE Complete if Known Application Number 09/966,571 Filing Date September 26, 2001 STATEMENT BY APPLICANT First Named Inventor Wagner, Peter Art Unit 1641 (use as many sheets as necessary) Examiner Name Nelson C. Yang 020144-001960US Attorney Docket Number of Sheet

		NON PATENT LITERATURE DOCUMENTS	_				
Examiner Cite Initials No.		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.					
M	FW	Thomberry, "Interleukin-1.beta. converting enzyme," Methods in Enzymology, 244:615-631 (1994).					
1	FX	Villa et al., "Caspases and caspase inhibitors," TIBS, 22:388-393 (1997).					
	FY	Wagner et al., ".omegafunctionalized self-assembled monolayers chemisorbed on ultrafiat Au(111) surfaces for biological scanning probe microscopy in aqueous buffers," J. Vac. Sci. Technol. B, 14(2):1468-1471 (1996).					
	FZ	Wagner et al., "Bioreactive self-assembled monolayers on hydrogen-passivated Si(111) as a new class of atomically flat substrates for biological scanning probe microscopy," Journal of Structural Biology, 119:189-201 (1997).					
	GA	Wagner et al., "Covalent immobilization of native biomolecules onto Au(111) via N-hydroxysuccinimide ester functionalized self-assembled monolayers for scanning probe microscopy," Biophysical Journal, 70:2052-2066 (1996).					
	GB	Wagner et al., "Formation and in Situ modification of monolayers chemisorbed on ultraflat template-stripped gold surfaces," Langmuir, 11(10):3867-3875 (1995).					
	GC	Weiner et al. "Site-directed mutagenesis of double-stranded DNA by the polymerase chain reaction" Gene 151:119-123 (1994).					
	GD	Wilson et al., "Structure and mechanism of interleukin-1.beta. converting enzyme," Nature, 370:270-275 (1994).					
	GE	Wondrak et al. "Influence of flanking sequences on the dimer stability of human immunodeficiency virus type 1 protease" Biochemistry 35:12957-12962 (1996).					
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Applicant's unique citation designation number (optional). Applicant is to place a check mark here if English language Translation is attached.